

SCHEMATIC
SYMBOL

DESCRIPTION

B & K
PART No.

SWITCHES

S105	Rotary Switch (MODE)	083-137-9-002
S106, VR109, VR110	Rotary Switch (SWEEP TIME/CM) ..	083-137-9-003
S101, S103, S107, S108	Slide Switch (3 POS)	084-022-9-001
S109	Slide Switch (SLOPE)	084-022-9-002

MISCELLANEOUS

	Bezel	380-137-9-001
	Bezel Retaining Nut	653-011-9-001
	Case	272-082-9-001
	Fuse, 1 Amp, 3 AG	191-251-3-001
	Graticule	380-137-9-002
	Graticule Filter, Green	380-137-9-003
	Knob, (VOLTS/CM, SWEEP TIME, MODE) Grey	751-077-9-001
	Knob, Grey	751-077-9-002
	Knob, (STABILITY), Grey	751-077-9-003
	Knob, Black	751-077-9-004
	Knob, (V POSITION), Grey	751-091-9-001
PL101, PL102	Lamp, Scale Illumination	400-026-9-001
	Transformer, Power	065-073-9-001

NOTE: Standard Value resistors are not listed. Values may be obtained from the Schematic Diagram.

SPECIFY SERIAL NO. WHEN ORDERING REPLACEMENT PARTS

B & K MODEL 1470 PARTS LIST

488-119-9-002

HORIZONTAL AMP/SWEEP P.C. BOARD

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PART No.

RESISTORS & CONTROLS

R46	22K Ω , 2W, 5%, Metal Film Resistor...	011-002-5-223
R49	22K Ω , 3W, 5%, Metal Film Resistor...	011-003-5-223
R57, R58	15K Ω , 2W, 5%, Metal Film Resistor...	011-002-5-153
R62	680 Ω , 2W, 5%, Metal Film Resistor...	011-002-5-681
R67	470 Ω , 3W, 5% Metal Film Resistor...	011-003-5-471
VR1	2.2K Ω , 0.15W, 25%, Trim Pot.....	008-169-9-007
VR2, VR3, VR10	47K Ω , 0.15W, 25%, Trim Pot.....	008-169-9-008
VR4, VR5	10K Ω , 0.15W, 25%, Trim Pot.....	008-155-9-004
VR6, VR7	1K Ω , 0.15W, 25%, Trim Pot.....	008-155-9-005
VR8	330 Ω , 0.15W, 25%, Trim Pot.....	008-155-9-006
VR9	22K Ω , 0.15W, 25%, Trim Pot.....	008-163-9-010

CAPACITORS

C2	1 μ fd, 50V, Non-Polarlytic	034-003-9-002
C10, C11	10 μ fd, 25V, Electrolytic Capacitor....	022-086-9-005
C14	100 μ fd, 16V, Electrolytic Capacitor....	022-073-9-002
C27, C31	470 μ fd, 16V, Electrolytic Capacitor....	022-073-9-003
C28	100 μ fd, 50V, Electrolytic Capacitor....	022-073-9-007
C29, C30, C32	220 μ fd, 50V, Electrolytic Capacitor....	022-073-9-006

DIODES & TRANSISTORS

D1, D3, D4-D6	Diode, Silicon, 1S1555	151-028-9-007
D2	Diode, Silicon 1N60	150-001-9-005
D7, D10	Zener Diode, ZB1-6	152-041-9-001
D8	Diode, Silicon, 1S1850	151-028-9-002
D9	Diode, Silicon, 1S1850R	151-028-9-003
D11	Diode, Silicon, 10D10	151-028-9-006
Q1-Q4, Q6-Q11	Transistor, Silicon, NPN, 2SC458-C...	176-016-9-001
Q16, Q17, Q21, Q22	Transistor, Field Effect, 2SK19-G (IGSS)	182-021-9-001
Q5, Q14	Transistor, Silicon, NPN, 2SC1012-A...	176-028-9-008
Q12, Q18, Q19	Transistor, Field Effect, 2SK19-Y (IGSS)	182-021-9-002
Q13	Transistor, Silicon, NPN, 2SC984....	176-034-9-001
Q15	Transistor, Silicon, NPN, 2SC971....	176-028-9-007
Q20		

COMPOSITE
499-043-9-001

SCHEMATIC
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CH1 & CH 2 VERTICAL AMPLIFIER P.C. BOARD

RESISTORS & CONTROLS		
R53, R54	8K Ω , 1W, 5%, Metal Film Resistor	011-001-5-802
R60, R61	2.7K Ω , 3W, 5%, Metal Film Resistor	011-003-5-272
VR1, VR5	68K Ω , 0.15W, 25%, Trim Pot	008-169-9-009
VR2, VR6	22K Ω , 0.15W, 25%, Trim Pot	008-163-9-010
VR3-VR7	10K Ω , 0.15W, 25%, Trim Pot	008-155-9-004
VR4	150 Ω , 0.15W, 25%, Trim Pot	008-174-9-002
VR8	330 Ω , 0.15W, 25%, Trim Pot	008-155-9-006

CAPACITORS & TRIMMERS

C2, C3, C7, C8	100 μ fd, 16V, Electrolytic Capacitor	022-073-9-002
C11	47 μ fd, 50V, Electrolytic Capacitor	022-087-9-002
C15, C25	22 μ fd, 50V, Electrolytic Capacitor	022-090-9-002
C16	22 μ fd, 250V, Electrolytic Capacitor	021-038-9-002
C17, C18	47 μ fd, 16V, Electrolytic Capacitor	022-090-9-003
TC1, TC3	10pfd, Trimmer Capacitor	028-020-9-003
TC2, TC4	20pfd, Trimmer Capacitor	028-020-9-002
TC5, TC8	70pfd, Trimmer Capacitor	028-025-9-002

COILS & CHOKES

L1, L2	20 μ H, Peaking Coil	041-053-9-001
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DIODES & TRANSISTORS

D1, -D10	Diode, Silicon, 1S1555	151-028-9-007
D11, D12	Diode, Germanium, 1N60	150-001-9-005
Q1, Q10	Transistor, Field Effect, 2SK19-GR (IGSS)	182-021-9-001
Q2-Q5, Q11-Q14	Transistor, Field Effect, 2SK30-O	182-014-9-003
Q6, Q7, Q15, Q16, Q19, Q22, Q23, Q30, Q33, Q36, Q39	Transistor, Silicon, NPN, 2SC458-C	176-016-9-001
Q8, Q9, Q17, Q18, Q20, Q21, Q28, Q29	Transistor, Silicon, NPN, 2SC535-B	176-036-9-001
Q24, Q25	Transistor Silicon, NPN, 2SC284-H	176-028-9-005
Q26, Q27	Transistor, Silicon, NPN, 2SC996	176-028-9-006
Q34, Q35	Transistor, Silicon, PNP, 2SA562-Y	177-006-9-002
Q40	Transistor Silicon, NPN, 2SC1012-A	176-028-9-008

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VERTICAL ATTENUATORS

S-102/VR102 S-104/VR105	"VOLTS/CM" Switch & Variable Control (CH1 & CH2)	083-137-9-001
R101, R107	900K Ω , 1/2W, 1%, Deposited Carbon Resistor	002-102-3-904
R102, R108	111K Ω , 1/2W, 1%, Deposited Carbon Resistor	002-001-9-021
R103, R109	990K Ω , 1/2W, 1%, Deposited Carbon Resistor	002-102-3-994
R104, R110	10.1K Ω , 1/2W, 1%, Deposited Carbon Resistor	002-001-9-024
R105, R111	999K Ω , 1/2W, 1%, Deposited Carbon Resistor	002-001-9-028
R106, R112	1K Ω , 1/2W, 1%, Deposited Carbon Resistor	002-102-3-102
R116, R117	1M Ω , 1/2W, 1%, Deposited Carbon Resistor	002-102-3-105

MAIN CHASSIS

RESISTORS & CONTROLS

VR101, VR103	5K Ω , Carbon Pot, "DC BAL"	008-174-9-003
VR-104, VR106	5K Ω , Carbon Pot, "V POS"	008-174-9-003
VR107	100K Ω , Carbon Pot, "TRIG LEVEL"	008-174-9-001
VR108	100K Ω , Carbon Pot, "STABILITY"	008-174-9-001
VR112	250K Ω , 0.2W, 20%, Carbon Pot, "ASTIG"	008-169-9-003
VR113	1M Ω , 0.25W, 20%, Carbon Pot, "INTENSITY"	008-163-9-003
VR114	500K Ω , 0.25W, 20%, Carbon Pot, "FOCUS"	008-169-9-004
VR115/S112	100 Ω , 0.25W, 20%, Carbon Pot, "ILLUM"	008-155-9-015

CAPACITORS & TRIMMERS

C126	0.5 μ fd x 5, 1.5KV, 5 Section Oil Capacitor	024-002-9-002
C127	47 μ fd, 250V, 3 Section Electrolytic Capacitor	022-090-0-001
TC101, TC103, TC105, TC107, TC109, TC111	50 pfd, Trimmer Capacitor	028-025-9-001
TC102, TC104, TC106, TC108, TC110, TC112, TC113, TC114	10pfd, Trimmer Capacitor	028-020-9-004

DIODES, TRANSISTORS & TUBES

D101, D102	Diode, Silicon ED01-04	151-033-9-001
D103, D104	Diode, Silicon S-05-08	151-033-9-002
	CRT 5DEPI (S)	230-003-9-001

